TYPE CERTIFICATE FOR BOATS

Builder:	**MSI Solutions, Cherbourg, France**
Boat type:	**ESUS-190 (Wheelhouse V1 and V2)**
Type Identification No.:	**550.13**
Applicability:	**COMMERCIAL, Decked**

THIS IS TO CERTIFY:
that the above mentioned boat type has been found to comply with the Society's Rules valid at the date of this certificate: **STANDARD FOR CERTIFICATION No. 2.21- CRAFT**

Conditions

Type certification means that the boatbuilder has engaged himself to build boats in series identical to the prototype which the Society has inspected and found to be in accordance with the above mentioned Rules. The production of the type certified boat is subject to surveillance by the Society, by inspection. Boats of the certified type is to be equipped with an individual certificate to be issued upon product survey.

Particulars

Length, Loa:	**19.02 m**
Beam incl. fenders, B max:	**4.93 m**
Draught incl. keel, max:	**0.94 m**
Height above waterline, incl. mast, max:	**6.30 m**
Weight of boat, incl. engine, equipment, net:	**23 860 kg**
Hull material:	**Marine Aluminium**
Propulsion:	**Twin Diesel / Waterjet: MAN2842LE405 / HJ 403**

Restrictions

Engine power, max:	**2 x 662 kW**
Maximum load (fuel, persons, add. weight):	**9 100 kg**
Number of persons, max:	**27**

Special restrictions:
- The cargo area load capacity is 1.0 t/m2 from fr. 10 to fr. 15, and 0.5 t/m2 forward of fr. 15.
- The maximum cargo of 4 000 kg on deck is to be placed with centre of gravity not forward of 3.7 m from the wheelhouse front.

The certification is based on the assumption that the boats will be handled in a seamanlike manner, as stipulated in the Rules.

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This Certificate is valid until **2019-07-31**.

Issued at **Høvik** on **2015-07-07**

for **DNV GL**

Odd Arne Lyngstad
Head of Section

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